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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/634,449	08/05/2003	Kenji Harano	14095Z	6708
23389	7590 05/17/2005		EXAMINER	
SCULLY SCOTT MURPHY & PRESSER, PC			JOHNSON III, HENRY M	
400 GARDEN CITY PLAZA SUITE 300		ART UNIT	PAPER NUMBER •	
GARDEN C	GARDEN CITY, NY 11530		3739	
			DATE MAILED: 05/17/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	10/634,449	HARANO ET AL.	
Office Action Summary	Examiner	Art Unit	-
	Henry M Johnson, III	3739	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	within the statutory minimum of thirty (30) days a reply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on <u>07 Mag</u>	arch 2005.		
2a)⊠ This action is FINAL . 2b)☐ This	action is non-final.		
3) Since this application is in condition for allowar	ice except for formal matters, pro	secution as to the merits is	
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	i3 O.G. 213.	
Disposition of Claims			
4) Claim(s) 17-44 is/are pending in the application	١.		
4a) Of the above claim(s) is/are withdraw	vn from consideration.		
5)⊠ Claim(s) <u>29-44</u> is/are allowed.			
6)⊠ Claim(s) <u>17-20,24 and 28</u> is/are rejected.	•		
7)⊠ Claim(s) <u>21-23 and 25-27</u> is/are objected to.			
8) Claim(s) are subject to restriction and/or	r election requirement.		
Application Papers			
9) The specification is objected to by the Examine	r.		
10) The drawing(s) filed on 03 November 2004 is/a	re: a)⊠ accepted or b)□ object	ed to by the Examiner.	
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	∋ 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the correct			
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority documents application from the International Bureau * Soo the attached detailed Office action for a list	s have been received. s have been received in Application of the control of the c	ion No ed in this National Stage	
* See the attached detailed Office action for a list	or the certified copies not receive	zu.	
Attachment(s)	-		
1) Notice of References Cited (PTO-892)	4) Interview Summary		
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D	ate Patent Application (PTO-152)	
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	6) Other:		

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Response to Arguments

Applicant's arguments filed March 7, 2005 have been fully considered but they are not persuasive. Yates clearly indicates the RF energy may be turned off or controlled. The control function would provide for reducing or increasing the power as dictated by the measured impedance. The control function inherently provides a reduction based on the predetermined calculated function and since it is not turned off, it is a fraction of the previous value. Yates also discloses threshold values from a look up table, thus teaching selecting from a plurality of predetermined target values.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 17-19 and 28 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent 5,558,671 to Yates. Yates teaches an electrosurgical device for ablation of tissue typically using RF energy (Col. 1, lines 15-22). Yates teaches control of the RF generator using a signal that provides a variable direct current (Fig. 10, # 64) voltage to the generator (Col 9, lines 63-67). A DC power supply is implicit in the ability to provide a variable DC voltage. Current and voltage to the electrodes is measured (detection circuit) and impedance calculated (Fig. 10, # 89). When the minimum impedance is determined, it is used to calculate a target impedance (estimation circuit) at which treatment completed (Col 8, lines 40-45). Circuitry is disclosed to control the generator based on the target impedance value (setting circuit). Yates teaches control of the RF power using the measured impedance (Col. 3, lines 1-5). Control

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involves both reducing and increasing the power to maintain a desired condition. Yates further discloses the threshold determination may use a look up table (Col. 2, line 64) that is a plurality of predetermined values.

Regarding claims 18 and 19, minimum impedance correlates to a maximum current.

Regarding claim 28, the method is disclosed as described above and referring to the flow diagram (Fig. 7).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 20 and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 5,558,671 to Yates as applied to claim 17 above and further in view of U.S. Patent 6,083,223 to Baker. Yates is discussed above, but does not disclose using impedance over time in determination of the target impedance value. Baker teaches a method and device for sealing blood vessels using impedance feedback to control the power level and the rate (over time) of the rise in actual impedance (Col. 9, lines 60-16). It would have been obvious to one having ordinary skill in the art at the time the invention was made to use the change in impedance over time as taught by Baker in the invention of Yates to refine the impedance data for better control of the process.

Allowable Subject Matter

Claims 29-44 are allowed.

Claims 21-23 and 25-27 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Care is required if the claims are rewritten to avoid duplicating allowed claims 29-44.

Reasons For Allowance

The prior art of record does not disclose or fairly suggest an apparatus and method for electrosurgery comprising a high frequency generator with circuits to detect current, voltage and impedance and a circuit to estimate the end point of a procedure, such as coagulation, using the time required to reach the minimum impedance (or maximum current). While prior art teaches calculation of an end point using minimum impedance and rate of change of the impedance, none disclose the time for obtaining an initial minimum impedance as a calculation variable.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

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CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Henry M Johnson, III whose telephone number is (571) 272-4768. The examiner can normally be reached on Monday through Friday from 6:00 AM to 3:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Linda C Dvorak can be reached on (571) 272-4764. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Henry M. Johnson, III Primary Examiner

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